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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/771,273	01/26/2001	Akihiro Shimotsu	A0-234 US	7981
23683 7	7590 05/17/2002			
MOLEX INCORPORATED 2222 WELLINGTON COURT LISLE, IL 60532			EXAMINER	
			DOAN, JENNIFER	
			ART UNIT	PAPER NUMBER
			2874	
			DATE MAILED: 05/17/2002	

Please find below and/or attached an Office communication concerning this application or proceeding.

_	Application No.	Applicant(s)
	09/771,273	SHIMOTSU, AKIHIRO
• Office Action Summary	Examiner	Art Unit
	Jennifer Doan	2874
The MAILING DATE of this communication Period for Reply	appears on the cover sheet wi	ith the correspondence address
A SHORTENED STATUTORY PERIOD FOR RETHE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CF after SIX (6) MONTHS from the mailing date of this communication - If the period for reply specified above is less than thirty (30) days, and the second of the second o	DN. R 1.136(a). In no event, however, may a roll. n. a reply within the statutory minimum of thirtherid will apply and will expire SIX (6) MON	eply be timely filed y (30) days will be considered timely. THS from the mailing date of this communication.
1) Responsive to communication(s) filed on	20 February 0202	
	This action is non-final.	
3) Since this application is in condition for all closed in accordance with the practice und	owance except for formal mat	ters, prosecution as to the merits is D. 11, 453 O.G. 213.
Disposition of Claims		
4) Claim(s) 1-9 is/are pending in the applicati		
4a) Of the above claim(s) is/are with 5) Claim(s) is/are allowed.	drawn from consideration.	
6) Claim(s) <u>1-4 and 6-8</u> is/are rejected.		
7) Claim(s) <u>5 and 9</u> is/are objected to.		
8) ☐ Claim(s) are subject to restriction an Application Papers	d/or election requirement.	
9)☐ The specification is objected to by the Exam	iner.	
10) The drawing(s) filed on is/are: a) ac	ccepted or b) objected to by th	e Examiner.
Applicant may not request that any objection to	o the drawing(s) be held in abeya	nce. See 37 CFR 1.85(a).
11)☐ The proposed drawing correction filed on	is: a)□ approved b)□ dis	sapproved by the Examiner.
If approved, corrected drawings are required in	reply to this Office action.	
12) The oath or declaration is objected to by the	Examiner.	
riority under 35 U.S.C. §§ 119 and 120		
13) Acknowledgment is made of a claim for fore	eign priority under 35 U.S.C. §	119(a)-(d) or (f).
a)⊠ All b)□ Some * c)□ None of:		
 Certified copies of the priority docume 		
Certified copies of the priority docume	ents have been received in Ap	plication No
3. Copies of the certified copies of the present of the present of the international from the International from the attached detailed Office action for a life.	riority documents have been re Bureau (PCT Rule 17 2(a))	eceived in this National Stage
14) Acknowledgment is made of a claim for dome		
a) The translation of the foreign language parts. Acknowledgment is made of a claim for dome	provisional application has bee	en received
tachment(s)	,, andor or 0,0.0. g	3 120 and/or 121,
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Inf	Immary (PTO-413) Paper No(s) formal Patent Application (PTO-152)
Patent and Trademark Office D-326 (Rev. 04-01) Office		

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DETAILED ACTION

Applicant's communication filed on February 20, 2002 has been carefully studied by the Examiner. The arguments advanced therein, considered together with the amendment made to the claims, are persuasive and the rejections set forth in the previous Office Action are withdrawn. In view of further search, however, and the consequent discovery of a relevant prior art document, a new rejection is set forth below. This action is **not** made final.

The examiner agrees with the applicant that Yamane reference does not disclose a ferrule having a capillary having two opposing ends and a hole for inserting an optical fiber and a flange molded on the intermediate of the capillary outer surface. However, a relevant reference is found in view of further search. A new rejection is therefore applied.

Priority

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Specification

 Applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification. Application/Control Number: 09/771,273

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Claim Rejections - 35 USC § 103

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- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Takahashi (U.S. Patent 6,341,191).

Takahashi discloses, in Figs. 1B, 1C and 1D, a ferrule for an optical fiber comprising a capillary (8) having two opposing ends and a hole extending between the opposing ends for insertion of an optical fiber (10); a flange (14) molded on a capillary outer surface; a recess portion (column 3, line 22); a projecting portion (16); wherein the recess portion is formed in the capillary outer surface and the projecting portion is formed integral with the flange as shown in Figs. 1C and 1D and wherein the flange (14) having a cylindrical outer surface comprising a large and small diameter portions as shown in Fig. 1B

Takahashi does not disclose a flange molded on the intermediate of the capillary outer surface as recited in claims 1 and 7. However, a flange molded on the intermediate of the capillary outer surface is considered to be an obvious choice in design, since positioning the flange on the capillary outer surface is one of many means to protect the ferrule device. Therefore, it would have been obvious to one having

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ordinary skill in the art at the time the invention was made to form the flange onto the intermediate of Takahashi capillary outer surface for protecting the ferrule.

Takahashi discloses every aspect of claimed invention except for a flange molded from a plastic material as recited in claim 2. It would have been obvious to one having ordinary skill in the art at the time the invention was made to have a flange molded with the claimed material, since it has been held to be within the general skill of a worker in the art to select a known material on the basis of its suitability for the intended use as a matter of obvious design choice. *In re Leshin*, 125 USPQ 416.

Allowable Subject Matter

5. Claims 5 and 9 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The prior art fails to disclose or reasonably suggest a ferrule for an optical fiber comprising a recess portion is formed integral with the flange and a projecting portion is formed in the capillary outer surface and filling a space surrounding the projecting portion with a molding material during molding as recited in claims 5 and 9.

Conclusion

6. Applicant's arguments with respect to claims 1-9 have been considered but are most in view of the new ground(s) of rejection.

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7. The prior art made of record and not relied upon is considered pertinent to

applicant's disclosure. Shirakawa (U.S. Patent 6,325,548) shows an optical fiber fixing

structure of a ferrule.

8. Any inquiry concerning the merits of this communication should be

directed to Examiner Jennifer Doan whose telephone number is (703) 308-6179. The

examiner can normally be reached on Monday to Thursday from 6:30am to 4:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Rodney Bovernick, can be reached on (703) 308-4819. The fax phone

number for the organization where this application or proceeding is assigned is (703)

308-7724.

Any inquiry of a general nature or relating to the status of this application or

proceeding should be directed to the receptionist whose telephone number is (703) 308-

0956.

Jennifer Doan

Patent Examiner

Tennifer Doan

May 09, 2002

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